

USSR

UDC 621.396.6-181.48

PARÈCHIN, V. I., TSVETKOV, A. F.

"Synthesis of Tolerances in Hybrid Film Microcircuits"

V sb. Metody mat. 1 fiz. modelir. 1 optimiz. parametrov radioelektron. apparatury. No 1 (Methods of Mathematical and Physical Simulation and Optimization of the Parameters of Radio Electronic Equipment. No 1 -- collection of works), Moscow, 1972, pp 41-42 (from <u>HZh-Radiotekhnika</u>, No 7, Jul 72, Abstract No 7V253)

Translation: The combined method of synthesizing tolerances using iteration calculations for applying additional relations to the parameters is discussed briefly. The solution of the problem is simplified as a result of the presence of strong correlations between the parameters of the elements. This permits designation of identical tolerances for such elements. The tolerances on the groups of parameters are selected as a function of their partial effect on the output parameter. The problem of synthesis of the tolerances on the tuned elements is solved by recalculating the generalized influence coefficient and by the iteration method.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202330002-7"

USSR

UDC: 669.71

AMELINA, Ye. A., PARFENOVA, A. M., SHCHUKIN, Ye. D., Moscow

"Influence of Thin Layers of Diphilic Molecules (Surfactants) on the Formation of Contacts in Porous Dispersed Structures Arising Upon Pressing of Powders"

Moscow, Fizika i Khimiya Obrabotki Materialov [The Physics and Chemistry of Materials Processing], No 6, Nov-Dec 73, pp 118-122.

Abstract: The influence of layers of octadecylamine and cetyl alcohol on the surfaces of dispersed particles on the process of formation of contacts in porous dispersed structures arising upon pressing of NaCl powders is studied. All of the layers studied, regardless of their thickness, prevent contact between NaCl particles due to valent forces, i.e., hinder the formation of phase contacts with NaCl-NaCl contact surfaces, and reduce the strength of the structure produced. The greatest screening effect is achieved at a certain critical particle compression force. The screening effect is independent of layer thickness. The critical particle compression force is a quantitative characteristic of the physical properties of the layers of diphilic molecules on the solid surface.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202330002-7"

UDC 541.64.547.551/.554

USSR

KATSARAVA, R. D., KORSHAK, V. V., RUSANOV, A. L., KOLESNIKOV, G. S., FEDOTOVA, O. YA., and PARESISHVILI, O. I., Institute of Hetero-organic Compounds of the USSR Academy of Sciences

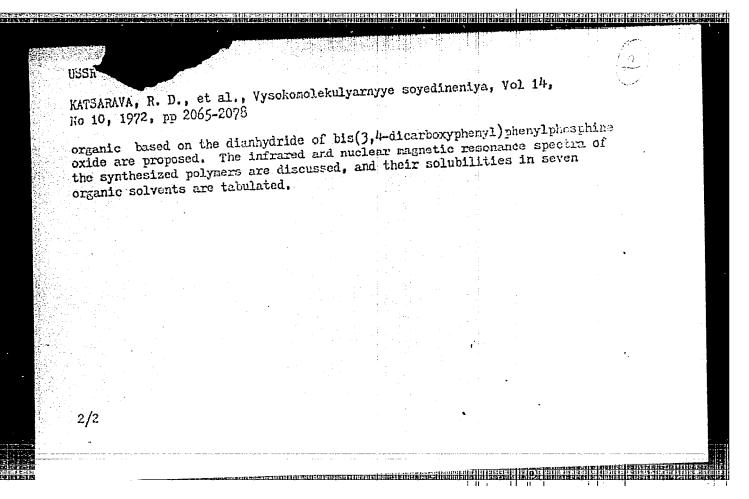
"Synthesis and Investigation of Polybenzoylenebenzimidazols Based on the Dianhydride of bis-(3,4-dicarboxyphenyl)phenylphosphine Oxide and Some Aromatic Tetraamines"

Moscow, Vysokomolekulyarnyye soyedineniya, Vol 14, но 10, 1972, pp 2065-2078

Abstract: Polybenzoylenebenzimidazols (PBS) were synthesized on the basis of the dianhydride of bis-(3,4-dicarboxyphenyl)phenylphosphine oxide and some bis-(o-phenylenediamines). A comparative study was made of the properties of the PBB and polyinides obtained on the basis of the above-mentioned dianhydride by solid-phase cyclodehydration of prepolymers. The PBB synthesized by cyclization of polyaminoamide acids in the solid state are insoluble in all of the solvents used. The data from studying model reactions indicate that PEB obtained by solid-phase cyclication of polyaminoamido acids have a three-dimensional structure. The possible reactions for the formation of the three-dimensional polymers and a method of obtaining PBB soluble in 1/2

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CIA-RDP86-00513R002202330002-7" APPROVED FOR RELEASE: 08/09/2001



USSR

UDC 541.64:536.4

FEDOTOVA, O. YA., GOROKHOV, V. I., PARESISHVILLO, KARETNIKOV, G. S., and KOLESNIKOV, G. S. (deceased), Moscow Chemical Technological Institute Imeni D. I. Mendeleyev

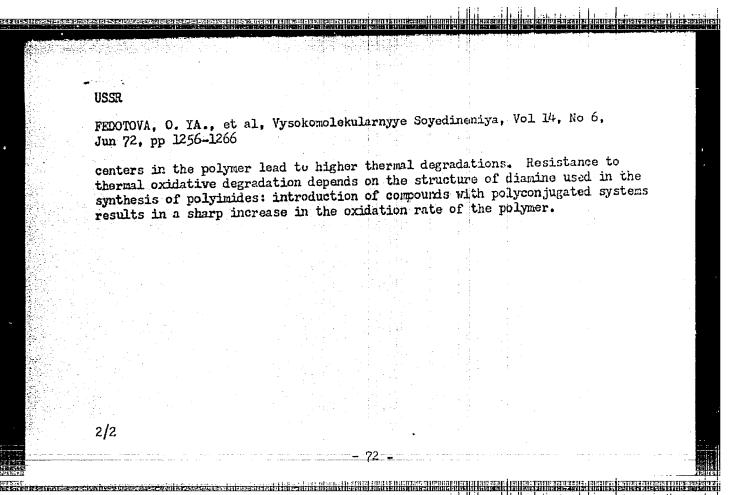
"Study of the Thermal Degradation and Thermal Oxidation of Phosphorus Containing Polyimides"

Moscow, Vysokomolekularnyye Soyedineniya, Vol 14, No 6, Jun 72, pp 1256-1266

Abstract: A study has been carried out on thermal and thermal-oxidative degradation of polyimides using the model reaction of the anhydride of di-(3,4-dicarboxyphenyl)-phenylphosphine oxide with various aromatic diamines. It has been shown that the thermal stability of phosphorus containing polyimides depends on the thermal stability of the imide cycle, whose stability in turn depends on the structure of the diamine. The low molecular weight products of thermal degradation consist of hydrogen, CO, CO₂, benzene, methane, ammonia, water, and traces of ethylene. Using EPR method, it was shown that in the solid products of thermal and thermal oxidation degradation the rate of the accumulation of paramagnetic centers depends on the structure of the diamine radical. Increasing concentrations of paramagnetic

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UDC 678.675.01:53

KOLESNIKOV, G. S., (DECEASED), FEDOTOVA, O. YA., and PARESISHVILI, O. I.

"Polyimides Based on Di-(3,4-dicarboxyphenyl)-Phenylphosphine Oxide Dianhydride"

Moscow, Plasticheskiye Massy, No 12, Dec 70, pp 20-23

Abstract: The authors study the physical and mechanical properties of homo- and mixed phosphorus-containing polyimides of various chemical structure selected in such a way that the effect which the phosphorus-containing group has on the properties of the polyimides could be investigated. It was found that all polyimides with phosphorus-containing groups in the chain have a definite softening point temperature in the region of 270-330°C depending on the structure of the amine component, and in the case of mixed polyimides, on the content of the phosphorus-containing dianhydride as well. It was also found that considerable reversible deformations are typical of the materials studied, which indicates that the softening process in polyimides corresponds to transition to the highly elastic state. However, further investigation shows that partial cross-linking may take place in the highly elastic state at high temperatures. In

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KOLESNIKOV, G. S., (DECEASED), et al., Plasticheskiye Massy, No 12, Dec 70, pp20-23

contrast to most polyimides, some of the materials synthesized in this research are readily soluble in organic solvents. Solubility drops with a reduction of phosphorus content in the chain. The tensile strength of films based on these polyimides may be as high tensile strength of films based on these polyimides may be as high as 800-1200 kg/cm² depending on polymer structure. The dielectric constant of the materials studied varies from \$3.3 to 3.9 and is not strongly dependent on temperature. The resistivity at room temperature is considerably greater than 1015 \$\impliese\$ \cdots\text{cm}, and the loss tangent is 0.002-0.16, showing almost no change with the structure of the polymer chain. The electrical strength of the polymers varies from 62 to 82 kW/mm. The polymers are fire-resistant and quench rapidly after removal from flame. In view of their valuable properties, these polymers should be put to practical use.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202330002-7"

UNCLASSIFIED PROCESSING DATE--300CT70
TITLE--THERMAL CYCLIZATION OF PHOSPHORUS CONTAINING HOMD AND MIXED
AROMATIC POLYAMIC ACIDS STUDIED FROM INFRAKED ABSORPTION SPECTRA -UAUTHOR-(04)-KOLESNIKOV, G.S., FEDOTOVA, O.YA., PARESISHVILI, O.I.,
BELEVSKIY, S.F.
COUNTRY OF INFO--USSR

SOURCE--VVSOKOMOL SOEDIN., SER. A 1970, 12(2), 317-22

DATE PUBLISHED----70

SUBJECT AREAS -- CHEMISTRY

TOPIC TAGS--CYCLIZATION, ORGANIC PHOSPHORUS COMPOUND, IR SPECTRUM, PYROMELLITIC ACID, THERMAL EFFECT, ACTIVATION ENERGY, IMIDE

CONTROL MARKING--NO RESTRICTIONS

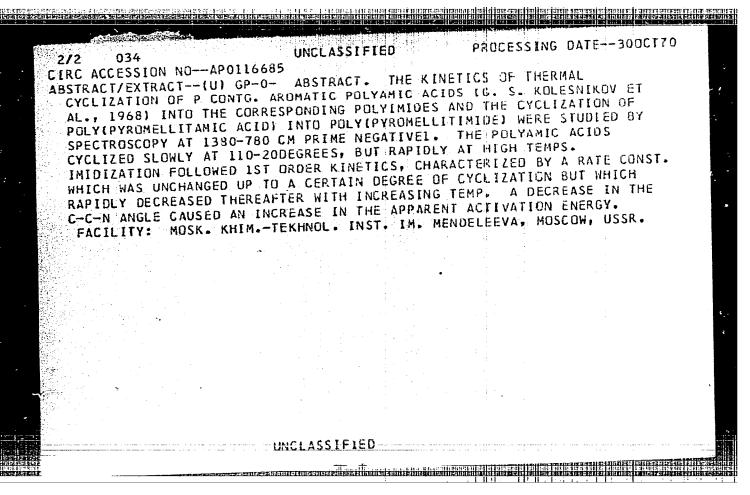
PROXY REEL/FRAME--1995/1223

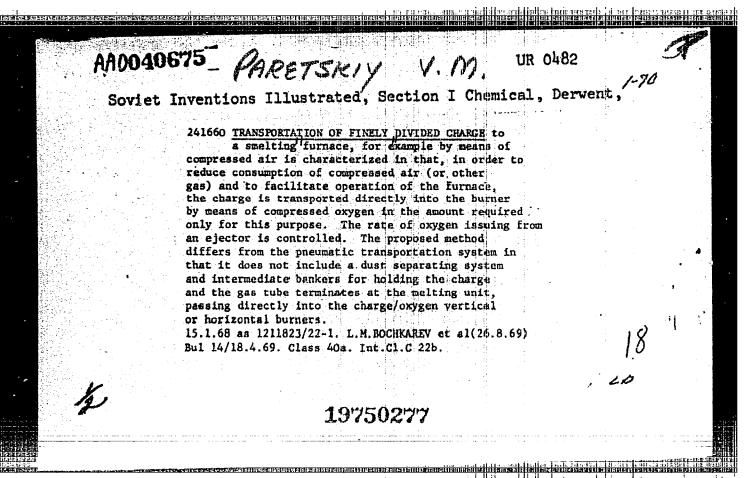
STEP NO--UR/0459/70/012/002/0317/0322

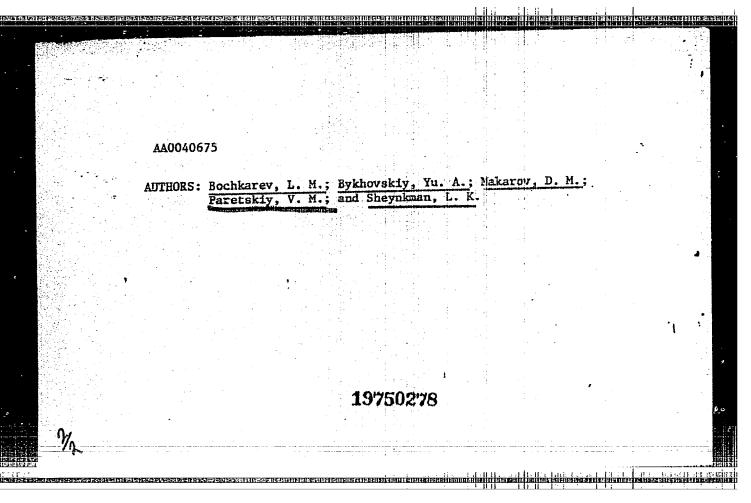
CIRC ACCESSION NO--APOLIG685

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USSR

MKHEYAN, V. YA., PAREYSHVILI, YE. A., and KARAGEZYAN, E. G., Radiobiology Department, Ministry of Health, Armenian SSR

"Changes Originating in Peripheral Blood and Spleen of Rats Under the Influence of Ruby Laser Rays on the Spleen"

Yerevan, Biologicheskiy Zhurnal Armenii, Vol 25, No 1, 1972, pp 28-35

Abstract: Experiments were conducted to study the quantitative and morphological changes in peripheral blood as well as morphological changes in the spleen under the direct influence of laser rays on hemopoletic organs (spleen). The spleen of 40 white rats were submitted to a single irradiation by a ruby laser (wavelength-694)Å, energy-3j/pulse, diameter of pencil ray-7mm, pulse duration-0.5 sec). Thenty control rats underwent surgery without irradiation. Twenty-five rats were examined for peripheral blood changes, 35 for norphological spleen changes. After an initial reference sample, blood samples were taken 1 hour, 1, 7, 15, and 30 days after irradiation. Five-micron microscopic sections were made of spleen samples. No visual changes in erythrocytes or hemoglobin were observed. All types of blood cells were briefly diminished i hour after irradiation, especially eosinophils, evidently connected with marked destructive changes of the spleen and perhaps the nerve-reflex factor.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202330002-7"

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MKHEYAN, V. YE., et al., Biologicheskiy Zhurnal Armenii, Vol 25, No 1, 1972, pp 28-35

Number of leukocytes, absolute quantity of lymphocytes, monocytes, and basophils increased beginning with the 1sr day after irradiation, reaching a maximum on the 7th. On the 7th, 15th, and 30th days an increase in the quantity of all blood cells was observed, especially lymphocytes, corresponding to hemopoiesis evidenced by an increased quantity of lymph follicles and cell elements of red pulp. Hemopoiesis activity was also influenced by the destruction of blood cells in the area of direct radiation. An increase of young forms of lymphocytes (lymphopoiesis) in the spleen and mitosis of marrow cells was observed. According to the results of the experiment, laser rays a have a stimulating effect on the hemopoietic organs and peripheral blood beginning with the first day after irradiation.

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1/2 015 UNCLASSIFIED PROCESSING DATE--020CT70
TITLE--CHOICE OF FURNACE FOR MELTING METALLIC SILICON -U-

AUTHOR-102)-DONSKOY, A.V., PARFANOVICH, B.V.

COUNTRY UF INFO--USSR

SOURCE--TSVET. METALLY JAN. 1970, (1) 47-49

DATE PUELISHED ---- 70

SUBJECT AREAS--MATERIALS, MECH., IND., CIVIL AND MARINE ENGR TUPIC TAGS--SILICON, METAL MELTING, BIBLIOGRAPHY, METALLURGIC FURNACE

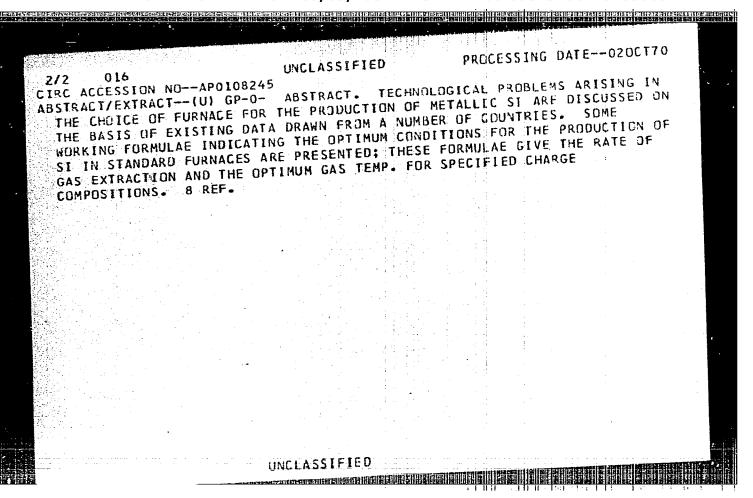
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1989/1916

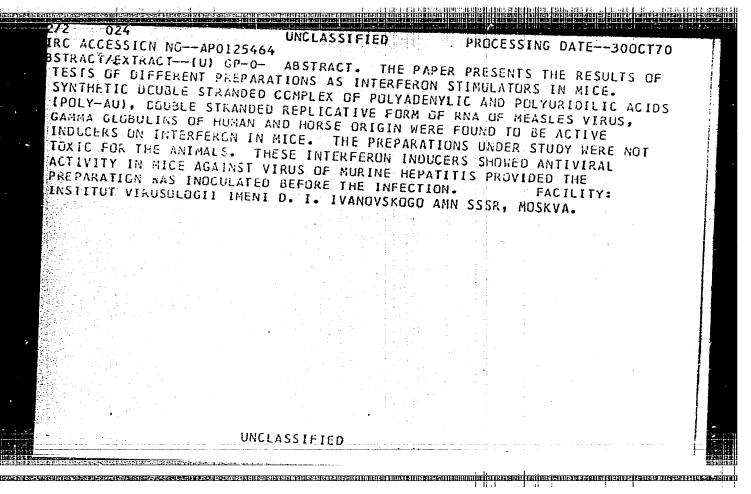
STEP NO--UR/0136/70/000/001/0047/0049

CIRC ACCESSION NO--APOIO8245

UNCLASSIFIED



ITLE-INVESTIGATION OF INTERFERON INDUCTION IN ANIMALS BY MEANS OF DIFFERENT STINULATORS -U-UTHOR-1051-OGANESYAN, R.KH., FADEYEVA, L.L., TIKHONENKO, T.I., MIKOLSKAYA, I.I., PARFANOVICH, M.I. UUNTRY OF INFO-USSR DURCE-VOPROSY VIRUSOLOGII, 1970, AR 3, PP 287-291 ATE PUBLISHED-UBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES OPIC TAGS-INTERFERON, MEASLES, GAMMA GLOBULIN, HEPATITIS, MOUSE, RNA CHTROL MARKING-NO RESTRICTIONS DCUMENT CLASS--UNCLASSIFIED ROXY REEL/FRAME-2000/1853 STEP NO--UR/0402/70/000/003/0287/0291 IRC ACCESSION NO--APO125464 UNCLASSIFIED



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SOURCE--IZV. AKAD. NAUK SSSR, NEORG. MATER. 1970, 6(2), 323-6

DATE PUBLISHED ---- 70

SUBJECT AREAS-PHYSICS, CHEMISTRY

TOPIC TAGS--SOLID SOLUTION, OPTIC PROPERTY, X RAY DIFFRACTION, ANALYSIS, COMPOUND, BARIUM COMPOUND, STRONTIUM COMPOUND, GERMANIUM

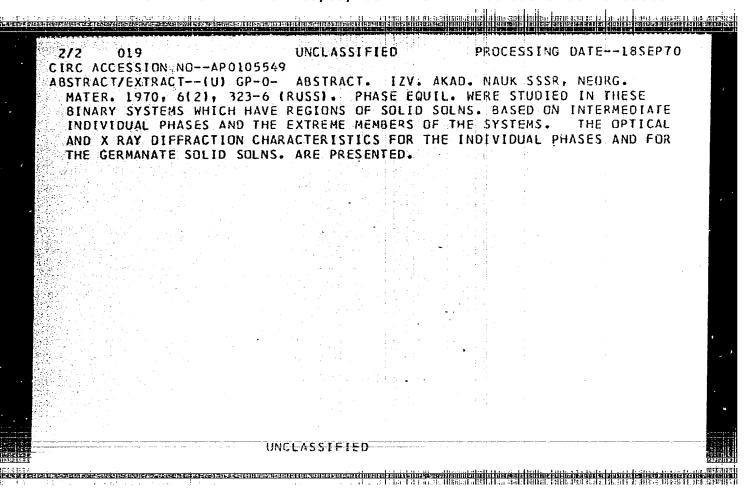
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1988/0564

STEP NO--UR/0363/70/006/002/0323/0326

CIRC ACCESSION NO--APO105549

UNCLASSIFIED



CIA-RDP86-00513R002202330002-7 "APPROVED FOR RELEASE: 08/09/2001

USSR

UDC: 621.319.4(088.8)

BELYAKHIN, I. K., PARFENOY B. F., BONDARCHUK, G. M., PROKOF'YEV, L. N.

"A Mandrel for Winding Mansbridge Capacitor Sections"

USSR Author's Certificate No 275231, filed 15 Nov 68, published 25 Nov 70 (from RZh-Radiotekhnika, No 6, Jun 71, Abstract No 6V378 P)

Translation: This Author's Certificate introduces a mandrel for winding sections of self-sealing capacitors. The device contains a cylindrical housing with a longitudinal slot accommodating a long needle for holding the ends of the ribbons to be wound on the mandrel. As a distinguishing feature of the mandrel, removal of the finished sections from the device is simplified by forming the mandrel from two hollow interconnected half--cylinders with tapered inner surface encompassing a tapered rod with a spring on one end which presses the half-cylinders against a support set on the rod.

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UDC: 621.372.41

AL'TSHULLER, G. B., PARFENOV, B. G., MURZIN, V. I.

"On the Effectiveness of Linear Thermal Compensation of AT Section Quartz Resonators"

Elektron. tekhnika. Nauch.-tekhn. sb. Radiokomponenty (Electronic Technology. Scientific and Technical Collection. Radio Components), 1970, vyp. 5, pp 35-41 (from RZh-Radiotekhnika, No 6, Jun 71, Abstract No 6V444)

Translation: The paper deals with the feasibility of using linear thermal compensation of AT section quartz resonators. Formulas are presented for calculating the parameters of the compensating elements, and experimental data are given. Resumé.

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UNCLASSIFIED PROCESSING DATE--230CT70
TITLE--DYNAMICS OF SYSTEMS OF CONTROL AT LOWER LIMIT OF RANGE OF
CONTROLLING UNDER NORLINEAR DAMPING -UAUTHOR-(05)-DANILOV, YU.A., KAZMIRENKO, V.F., KUZMIN, A.N., PAREENOV,

COUNTRY OF INFO--USSR

SOURCE--AVTOMATIKA I TELEMEKHANIKA, 1970, NR 3, PP 152-173

DATE PUBLISHED ---- 70

SUBJECT AREAS--MATHEMATICAL SCIENCES, MECH., IND., CIVIL AND MARINE ENGR TOPIC TAGS--DYNAMIC SYSTEM, NONLINEAR AUTOMATIC CONTROL SYSTEM, HARMONIC

CONTROL MARKING--NO RESTRICTIONS

FUNCTION, LINEAR APPROXIMATION

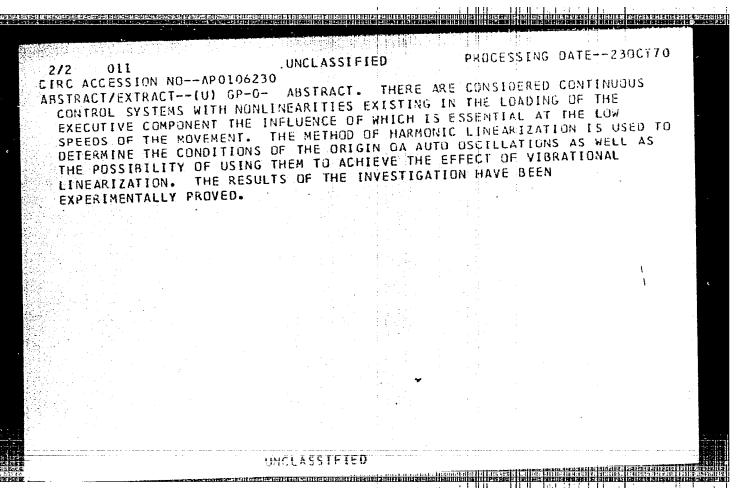
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1988/1474

STEP NU-+UR/0103/70/000/003/0162/0173

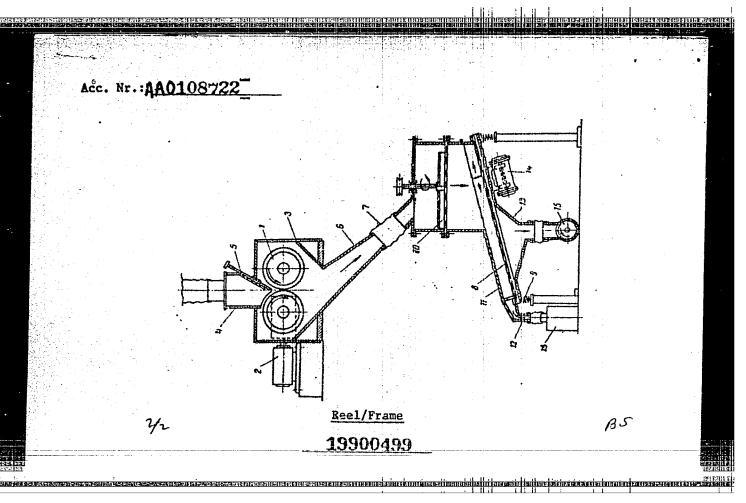
CIRC ACCESSION NO--APO106230

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Ref. Code: Acc. NA0108722 Abstracting Service: 3-70 UR 0482 Soviet Inventions Illustrated, Section II Electrical, Derwent, 244352 ROLL PELLETISER to produce hard alloys from powder comprises smooth sprung metal rolls (1) enclosed by a cowl (3) with a bin (4) at the top and a portioner (5). A rubber sleeve (7) in the channel (6) connects to the uppers of a vibro-screen (8) carried on shock absorbers (9). Above the screen deck is an intermediate deck (10) with paddle. The two screen decks are enclosed together with a channel (12). A bin (13) below the screen (8) has a vibrator (14) and worm (15) to feed the rolls. 27.5.63 as 838490/22-2. PARFENOV.F.I., A.P. CHERNOZUEOV. V.P. MELNIKOV et al. (9.10.69) Bul 18/28.5.69. Class 18a. Int.Cl. C 21 b. Parfenov, F. I.; Chernozubov, A. P.; Mel'nikov, V. P.; **AUTHORS:** Kropisnov, M. K.; Yakovlev, V. P.; Nelidov, M. A. 18 1/2 REEL/FRAME 19900498



APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202330002-7"

USSR

ANAN'YEVSKIY, M. G., BOCHKOV, N. G., SPEVAK, YE. YA., PARFENOV, G. V., and MYL'NIKOV, R. M.

"The Effect of Vanadium, Titanium, and Boron Modification on the Structure, Magnetic Properties, and Aging of Electric Unalloyed Steel"

Dnepropetrovsk, Metallurgicheskaya i Gornorudnaya Promyshlennost', No 1(79) Jan/Feb 73, pp 36-38

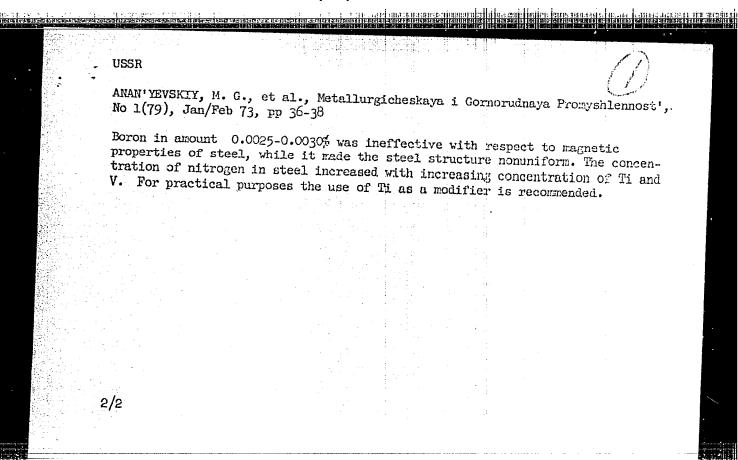
Abstract: In order to prevent E0100-E0300 electric steels from magnetic aging, which takes place primarily on account of nitrogen, an attempt was made to modify these steels with vanadium, titanium, and boron. Magnetic properties, aging coefficient, and microstructure of modified steels were studied after 200 hours of heat treatment at 120°C. Addition of 0.02-0.03% TI (as ferrotitanium) to molten steel almost completely suppressed the magnetic aging while the magnetic reversal losses were $P_{1.5/50}=9.3~W/k_{\rm g}$.

Higher amounts (0.04%) of titanium decreased considerably the size of grains. The aging of steel was completely suppressed with the addition of 0.03-0.05% V (as ferrovanadium) but the magnetic reversal losses were $P_{1.5/50} > 9 \text{ W/z}_{\odot}$.

High magnetic reversal losses in this case are attributed to small ferrite grains formed in steel (10-9 relative units, control 8-9 relative units).

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UDC 669.15'74-194:620.17:620.18

PARFENOV, L. I., and SOROKIN, G. A.

"Effect of the Deformation Temperature and Subsequent Heat Treatment on the Structure and Properties of High-Manganese Steel"

Moscow, Metallovedeniye, No 5, 1971, pp 43-45

Abstract: The structure and mechanical properties of billets of high-manganese steel (1.1% C, 12% Mn, 0.6% Si, 0.013% S, and 0.075% F) were investigated after forging and four types of subsequent heat treatment: 1) air cooling after forging; 2) water cooling after forging; 3) heating up to 1050-1080°C over a period of 1 hr after forging and subsequent water cooling; 4) air cooling after forging with subsequent heating at 1050°C over a period of 3 hrs and water cooling. The effect of the forging reduction ratio and heat treatment on mechanical properties and grain size and the effect of plastic deformation and temperature on wear resistance are discussed by reference to diagrams. The optimum deformation temperature for parts working under abrasive year conditions was found to be 800-850°C and for parts working under impact abrasive year conditions, 900-950°C. Four figures.

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USSR

UDC 536.46:533.6

PANIN, V. F., PARFENOV, L. K., ZAKHAROV, Yu. A.

"On the Phenomenon of Three Flame Propagation Limits in a $H_2-O_2-N_2$ System"

V sb. Goreniye i vzryv (Combustion and Explosion -- Collection of Works), Moscow, "Nauka", 1972, pp 293-295 (from RZh-Mekhanika, No 3, Mar 73, Abstract No 38971)

Translation: The flame concentration limits in hydrogen-oxygen-nitrogen mixtures were studied experimentally in the pressure range $\sim 10-10^3$ mm Hg. The existence of two limits (in terms of pressure) was established for flame propagation: flame propagation at a certain H₂ concentration is possible only in a limited pressure interval for a given 0_2 content in the system. Analysis of the experimental results and published data made it possible to propose the existence of three pressure limits for flame propagation in the H₂-O₂-N₂ system. A schematic picture is proposed for a system in the pressure range $10-10^5$ mm Hg. 6 ref. Authors' abstract.

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1/2 027
TITLE--SOME PROBLEMS OF CLINICAL STUDY AND THERAPY IN KERATOMICOSES -U-

AUTHOR-PARFENOV. L.K.

COUNTRY OF INFO--USSR

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SOURCE-VESTNIK OFTAL MOLOGII, 1970, NR 2, PP 81-84

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--FUNGAL DISEASE, EYE, ANTIBIOTIC, CORTICOSTEROIO, CORNEA, CORTISONE, FUNGICIDE, TETRACYCLINE

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1986/0679

STEP NO--UR/0357/70/000/002/0081/0084

CIRC ACCESSION NO--AP0102663

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202330002-7"

UNCLASSIFIED PROCESSING DATE--18SEP70 CIRC ACCESSION NO--APO102663 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. OF LATE A CONSIDERABLE INCREASE IN THE INCIDENCE OF FUNGAL EYE LESIONS, BELIEVED TO BE DIRECTLY RELATED TO IRRATIONAL USE OF BROAD SPECTRUM ANTIBIOTICS AND CORTICOID PREPARATIONS. HAS BEEN NOTED. ON AN EXAMPLE OF 36 PATIENTS SUFFERING FROM KERATOMYCOSES THE AUTHOR SHOWS A HIGHER PROBABILITY OF THE CORNEA INFECTION WITH THE EYE EXPOSED TO THE ACTION OF TETRACYCLINE OR CORTISONE, THE MORE SO WHEN THESE DRUGS ARE APPLIED CONCURRENTLY. IN MANY INSTANCES A MECHANICAL IMPACT ON THE FOCUS OF THE AFFECTION (CURRETAGE, CAUTERIZATION) AND THE USE OF ANTIFUNGAL AGENTS ARE BY FAR NOT ALWAYS EFFECTIVE IN CASES OF INTENSIVE CICATRICIAL OPACIFICATION OF THE CORNEA. DEMANDING ADDITIONAL TREATMENT WHICH FOR A LONG TIME DETRACTS THE PATIENTS FROM OCCUPATIONAL ACTIVITY. EXPERIMENTS AND CLINICAL OBSERVATIONS POINT TO THE RATIONALE OF EMPLOYING LAMINAR KERATOPLASTY, BOTH IN MANAGING THE RESULTANT LEUCOMAS OF FUNGAL ETIOLOGY AND IN THE ACUTE PERIOD OF THE AFFECTION, WHEN CONSERVATIVE ANTIFUNGAL THERAPY PROVES OF NO AVAIL. UNCLASSIFIED

USSR

UDC 621.396.6-181.5

GUSAKOV, V. M., PARFENOV, R. I. BOKHANKEVICH, T. V.

"Use of a Computer to Calculate MOS-Transistorized Integrated Circuits"

Elektron. prom-st'. Nauch.-tekhn. sb. (Electronic Industry. Scientific-Technical Collection), 1970, No 2, pp 41-44 (from RZh-Radiotekhnika, No 4, Apr 71, Abstract No 4V183)

Translation: A model of a transistor with MOS structure is proposed which permits calculation of microcircuits with the MOS structure on computers. A method of solution is selected, and a program is written for calculating the transient process of the digital microcircuit with MOS structure in ALGOL-60. This program automatically compiles a system of differential equations describing the behavior of the circuit. The circuit of an inverter made of mutually complementing transistors with MOS structure is calculated analytically and on a computer, and the results obtained are compared with experimental data.

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TITLE--MANAGEMENT PROBLEMS IN THE MACHINE TOOL INDUSTRY -U-

AUTHOR-(02)-PARFENOV, V., MIRONOV, N.

COUNTRY OF INFO--USSR

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SOURCE-PRAVDA, DEC. 25, P.

DATE PUBLISHED -- 25DEC 70

SUBJECT AREAS -- BEHAVIORAL AND SOCIAL SCIENCES

TOPIC TAGS--MINISTERIAL CONTROL, R AND D MANAGEMENT DRGANIZATION, COMPUTER CENTER, ECONOMIC PLANNING PROBLEM, BONUS, INDUSTRIAL PERSONNEL, R AND D MANAGEMENT PROBLEM, INFORMATION PROCESSING

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/1092

STEP NO--UR/9012/70/000/000/0002/0002

PROCESSING DATE--230CT70

CIRC ACCESSION NO--ANOIZ1655

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202330002-7"

PROCESSING DATE--230CT70 UNCLASSIFIED 2/5 026 CIRC ACCESSION NO--ANOI21655 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. COMPLETING OUR PUBLICATION OF "LETTERS FROM A MINISTRY", TODAY'S ARTICLE TELLS ABOUT THE WAYS OF IMPROVING THE MANAGERIAL WORK OF EMPLOYEES AT BRANCH "HEADQUARTERS". MORE THAN A THOUSAND SPECIALISTS OF VARIOUS OCCUPATIONS, AGES AND BACKGROUNDS COME TO WORK EACH MORNING AT THE MINISTRY OF THE MACHINE TOOL AND TOOL INDUSTRY. AT 8.55 A.M. THE LINES AT THE CLOAKROOM AND THE ELEVATORS HERE ARE LONGER THAN THOSE AT THE THEATER AFTER A PLAY. BUT PEOPLE COME TO THE MINISTRY DURING THE DAY AS WELL. THEY WALK DOWN THE LENGTHY CORRIDORS, STAND IN LINE OUTSIDE THE OFFICES OF THE DIRECTORS OF CHIEF ADMINISTRATIONS AND OF THEIR DEPUTIES AND ARGUE HEATEDLY AT THE DESKS THAT CROWD THE ROOMS OF THE VARIOUS DEPARTMENTS. THE PHONES A CONSTANT STREAM OF LETTERS, TABLES, REPORTS AND OTHER DOCUMENTS LANDS ON THE DESKS. SUCH IS AN AVERAGE DAY AT THE MINISTRY. MINISTRY, EMPLOYEES OF THE BUSINESS OFFICE WORK IN 17 DIFFERENT LOCATIONS; THEY ARE SCATTERED AROUND THE EINTIRE BUILDING", THE HEAD OF THE OFFICE TOLD US. "THERE ARE NO DIRECT COMMUNICATIONS; ONE HAS TO USE AFTER HEARING THE REPORT OF THE MINISTRY'S PARTY THE TELEPHONE". COMMITTEE, THE BUREAU OF THE FRUNZE BORDUGH PARTY COMMITTEE STATED THAT NO CLEAR OUT PROCEDURE FOR RECORDING AND PROCESSING COMPLAINTS HAS BEEN SET UP IN THE CHIEF ADMINISTRATIONS AND ADMINISTRATIONS. THERE ARE SERIOUS SHORTCOMINGS IN THE WAY THE RECEPTION OF VESITORS IS ORGANIZED. COMPLAINTS AND REQUESTS PRESENTED DRALLY ARE NOT REGISTERED. AS MANY AS 20PERCENT OF ALL DOCUMENTS ARE COMPLETED FROM LO TO 30 DAYS LATE. OFFICIALS OF THE MINISTRY TAKE DIFFERING VIEW OF THIS STATE OF AFFAIRS.

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PROCESSING DATE--230CT70 UNCLASSIFIED ABSTRACT/EXTRACT--SOME ATTRIBUTE IT TO POOR DISCIPLINE, AND HE CANNOT BUT 3/5 026 AGREE WITH THIS. IT IS STILL COMMON FOR ORDERS NOT TO BE CARRIED OUT ON TIME. AND THE GUILTY PARTIES ARE BY NO HEARS ALWAYS CALLED TO ACCOUNT. THIS WAS THE CASE, FOR EXAMPLE, WITH ORDER NO. AK-184, DATED JUNE 10. IN THIS DOCUMENT, MINISTER A. I. KOSTOUSOV ORDERED THE DIRECTORS OF THE CHIEF ADMINISTRATIONS TO WORK OUT MEASURES TO IMPROVE THE SYSTEM OF RECIPROCAL DELIVERIES OF CASTINGS. AN AUTHORITATIVE COMMISSION WAS SET UP, AND DEADLINES WERE FIXED. ALL THE DEADLINES HAVE PASSED, BUT NO MEASURES HAVE BEEN UNDERTAKEN, AND THOSE RESPONSIBLE HAVE NOT BEEN EVIDENTLY THIS IS WHY SOME EXECUTIVES HAD OUT WHAT INFLUENCE HAS THE CALLED TO ACCOUNT. PROMISES SO FREELY AND THEN FORGET ABOUT THEM. ECONOMIC REFORM HAD ON THE WORK STYLE OF THE MINISTRY'S APPARATUS? ASKED THIS QUESTION OF MANY RESPONSIBLE STAFF MEMBERS. UNFORTUNATELY, IT IS AS IF THE REFORM HAD BYPASSED THE BRANCH HEADQUARTERS. DEAL REMAINS UNCHANGED HERE, JUST AS IT WAS AT ONE TIME IN THE FORMER THE MAIN DEFECT IS THAT THE WORK OF THE PLANTS IS OFTEN PLANNED WITHOUT CONSIDERATION FOR THE REQUIREMENT OF THE REFORM. PLANS ARE REVISED AND CORRECTED MANY TIMES DURING THE YEAR. FOR INSTANCE, THE PLAN FOR THE WORK OF THE RYAZAN CENTRAL FOUNDRY HAS BEEN REVISED SIX TIMES. THE SAME APPLIES TO INCENTIVES. GONUSES FOR THE YEAR'S RESULTS ARE ISSUED TO EMPLOYEES FO THE CHIEF ADMINISTRATIONS ON A ROTATING SYSTEM: ONE GROUP ONE QUARTER, ANOTHER GROUP THE NEXT. HAPPENS SIMPLY BECAUSE THERE ARE NO ECONOMIC CRITERIA FOR EVALUATING THE EFFICIENCY OF THE WORK OF ANY GIVEN STAFF MEMBER IN THE APPARATUS. UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--230CT70 SIRC ACCESSION NO--ANOIZ1655 ABSTRACT/EXTRACT--GREAT HOPES ARE HELD HERE FOR THE BRANCH AUTOMATED MANAGEMENT SYSTEM (BAMS) AND FOR THE MINISTRY'S INFORMATION AND COMPUTING CENTER. THE ORDERS TO CREATE AND INTRODUCE THIS SYSTEM IN THE FBRANCH WERE ISSUED ON APRIL 19 AND AUG. 17, 1966. DURING THE PERIOD SINCE THAT TIME, "A CERTAIN AMOUNG OF WORK HAS BEEN DONE", AS IT IS CUSTOMARILY PUT. TELETYPE MACHINES HAVE BEEN INSTALLED AT 180 PLANTS, AND 43 INTERCONNECTED INFORMATION STATIONS HAVE BEEN ORGANIZED IN VARIOUS PARTS OF THE COUNTRY TO GATHER CURRENT INFORMATION. A DEPARTMENT FOR THE INTRODUCTION OF CUMPUTER TECHNOLOGY HAS BEEN SET UP IN THE MINISTRY'S TECHNICAL ADMINISTRATION. A CENTRAL COMMUNICATIONS OFFICE AND INFORMATION AND COMPUTING CENTER, WHICH IS CONNECTED BY COMMUNICATIONS CHANNELS TO THE NETWORK OF INFORMATION STATIONS, HAS BEEN EQUIPPED IN MOSCOW. AT THE EXPERIMENTAL METAL CUTTING HACHINE TOOLS RESEARCH INSTITUTE, A DEPARTMENT HAS BEEN SET UP TO WORK OUT AND INTRODUCE A BRANCH AUTOMATED SYSTEM. SINCE MAY, 1968, MORE THAN A YEAR AND A HALF AGO, THE INFORMATION AND COMPUTING CENTER HAS BEEN GIVING ALL THE DIRECTURS OF CHIEF ADMINISTRATIONS AND THEIR DEPUTIES A REPORT EVERY TEN DAYS ON PROGRESS IN THE FULFILLMENT OF THE PRODUCTION PLAN BY THE MINISTRY'S PLANTS. NEVERTHELESS, THE STAFF MEMBERS OF THE CHIEF ADMINISTRATIONS CONTINUE TO COLLECT THE VERY SAME DATA BY TELEPHONE EVERY TEN DAYS. NOR IS THAT ALL. THE VERY SAME REPORTS, SIGNED BY DIRECTORS AND WITH OFFICIAL SEALS AFFIXED, STILL AFRIVE AT THE MINISTRY EVERY MONTH BY MAIL. BONUSES ARE GIVEN TO THE COLUECTIVES SULELY ON THE BASIS OF THESE REPORTS. WHAT IS THE SOURCE OF THIS DISTRUST FOR ELECTRONIC MACHINES? UNCLASSIFIED

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ABSTRACT/EXTRACTIS IT REPRODUCE THE OFFICIAL	PERHAPS BECAUSE L SEALS?	THEY	HAVE	NOT	YET	BEEN	ADAPT	ED TO	
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USSR

VDC: 612.(075.5)

PARFENOV. V. A., PLATONOV, V. N., and FLATONOV, S. N., Chair of Swimming, Problem Scientific Research Laboratory of High Training Loads, State Institute of Physical Culture, Kiev

"A Barochamber-Treadband for Tests in an Altered External Environment"

Leningrad, Fiziologicheskiy Zhurnal SSSR imeni I. M. Sechenova, Vol 57, No 1, 1971, pp 140-143

Abstract: A barochamber with a capacity of 100 liters has been designed which is totally enclosed and made of transparent plastic. The purpose of the chamber is study of the functional state of small laboratory animals that walk or run at various speeds. The chamber can be filled with a gas mixture containing 0, 0, He, and N in the desired ratios. The pressure in the chamber can be varied in the 0.5-1.5 at pange and the concentration of negative air (gas) ions in it in the range of 10 - 10 /cm. An endless moving bend is contained in the chamber, the velocity of the motion of which can be varied in 16 steps from 0.2 to 2.5 m/sec. The animals of a group placed into the chamber run on the vertically moving band in the direction of its motion until they reach an electrically

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PARFENOV, V. A., et al, Fiziologicheskiy Zhurnal SSSR imeni I. M. Sechenova, Vol 57, No 1, 1971, pp 140-143

charged gate suspended from the top at the point at which the band, which is propelled by an electric motor, turns downwards over a shaft. Under the effect of the electric shock from the gate, the animals turn back on the band, unless they are so tired that they cannot make the required effort; they then pass through the gate and fall into a lower compartment of the chamber. The chamber has been used in preliminary research on the effects of gas mixtures with different ratios of 0: No partial pressures on the performance of animals at various intensities of effort and also on the type and duration of restoration processes that followed physical loads to which the animals were subjected.

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USSR

UDC: 621.373.421.13

AL'TSHULLER, G. B., MIRZIN, V. I., PARFENOV. V. G.

"Effect Which the Transconductance Phase of a Transistor Has on the Frequency Stability of a Quartz Crystal Oscillator"

V sb. Poluprovodn. pribory v tekhn. elektrosvyazi (Semiconductor Devices in Technical Electrical Communications—collection of works), Moscow, "Svyaz'", 1970, pp 113-121 (from RZh-Radiotekhnika, No 1, Jan 71, Abstract No No 1D342)

Translation: The authors consider frequency relationships in a quartz crystal controlled oscillator with regard to complex conductivities and the transconductance phase of the transistor. An expression is presented for determining the mismatch of the oscillator relative to the series resonance frequency. A formula is derived for calculating the component of frequency instability due to the effect of a change in the transconductance phase of the transistor. In addition, a study is made of the dependence of the given frequency instability component on the value of the given mismatch. Three illustrations, bibliography of six titles. Resumé.

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PRUCESSING DATE--300CT70

TITLE-USE OF SURFACE ACTIVE AGENTS FOR DRYING THE EXTERIOR FACINGS IN GAS AUTHOR-(04)-KARIMOV, M.F., KAYGORODOV, V.A., KVASOV, V.P., PARFENOV, V.I.

CCUNTRY OF INFO-USSR

SOURCE-GAZOV. PROM. 1970, 15(3), 23-4

DATE PUBLISHED 70

SUBJECT AREAS -- MATERIALS, MECH., IND., CIVIL AND MARINE ENGR

TOPIC TAGS-SURFACE ACTIVE AGENT, SURFACE TENSION, NATURAL GAS, POL STORAGE, UNDERGROUND FACILITY, CHEMICAL DRYING

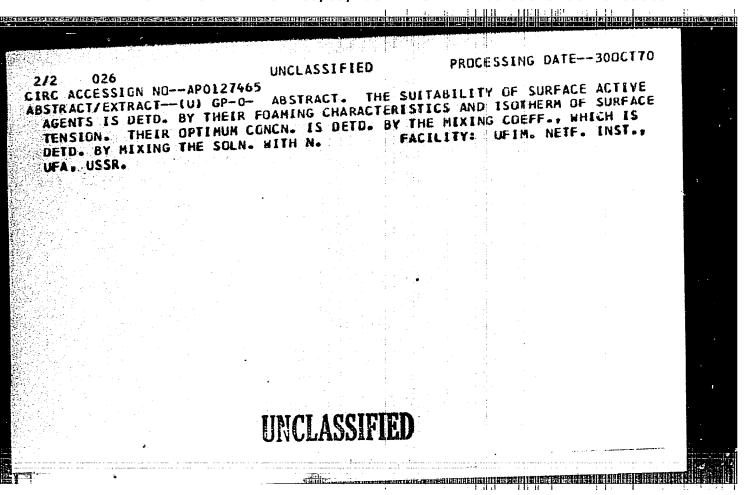
CONTROL MARKING-NO RESTRICTIONS

DCCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME-3001/2092

STEP NO--UR/0492/70/015/003/0023/0024

CIRC ACCESSION NO-APO127465

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UDC 617-001.28-036.12-092.9-085.849.1.015.25-07[: 616.36+616.61]07

MIKHAYLOVICH, S. M., OVDIYENKO, N. I., SEDOV, V. V., LEBEDEVA, G. A., and PARFENOV, Yu. D.

"The Effect of Oxathiol on the Liver and Kidneys in Chronic Radiation Sickness Induced by the Injection of Polonium 210 "

Moscow, Meditsinskaya Radiologiya, No 4, 1970, pp 43-51

Abstract: A single subcutaneous injection of dogs with 2.5 microcurie/kg of Po²¹⁰ produced chronic radiation sickness accompanied by impairment of liver and espectably kidney function, causing death of animals in 9 months. In experimental dogs, daily doses of 50 and 25 mg/kg of exathiol for a month not only mitigated the liver and kidney disorders, but enabled the animals to survive for the entire 7-year observation period. Oxathiol treatments also reduced the size of the absorbed dose of Po²¹⁰ in the organs. Oxathiol is a complexing agent that accelerates the excretion of polonium from the body by forming stable water-soluble complexes. The free SH groups contained in exathiol help to restore the radiation-impaired balance of SH groups in the enzyme systems.

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WC 678.742.2.66.018.887.01.53

BRAGINSKIY, R. P. PARPENOVA D. S. TROITSKIY, I. D., FINKEL', E. E., and CHERVONTSEVA, G. M.

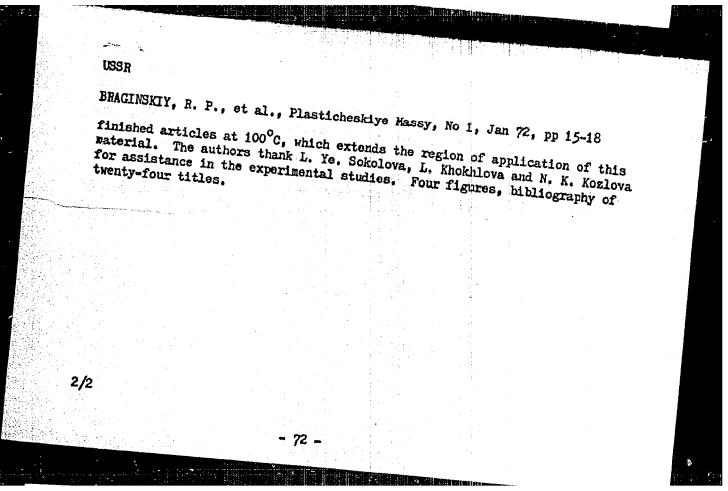
"Radiation Modification of Self-Extinguishing Polyethylene Compositions"

Moscow, Plasticheskiye Massy, No 1, Jan 72, pp 15-18

Abstract: The authors consider possibilities for radiation modification of self-extinguishing compositions based on low-density polyethylene to improve thermal stability and physical and mechanical characteristics at high operating temperatures. The self-quenching composition studied was made up of 77.0 percent P2015KU polyethylene, 11.3 percent chloroparaffin 70, and 11.7 percent Sb₂0₃. The control specimens were unmodified P2015KU polyethylene.

Pressed plates about 0.3 mm thick were exposed to Co gamma radiation at room temperature in helium to absorbed doses of 1-500 Mrad. The gel fraction content was then determined. Deformation characteristics were measured on special specimens. The thermomechanical characteristics and quenching properties were also studied. It was found that an optimum dose of about 15 extinguishing composition. Thermomechanical tests of specimens which had absorbed this dose showed that shape stability is adequate for use of

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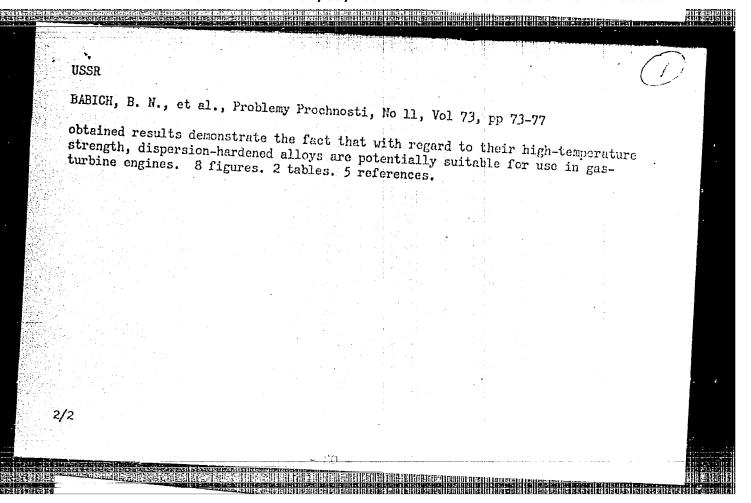
BABICH, B. N., BULYGIN, I. P., ZHUKOV, N. D., KRIVENKO, M. P., and PARPIRIOVA, H. I. All-Union Scientific Research Institute of Aviation Materials (Nos cow)

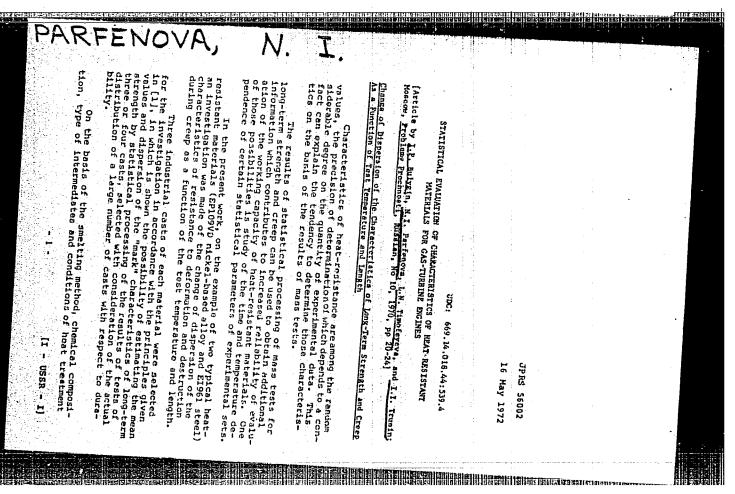
"The High-Temperature Strength of Dispersion-Hardening Composition Alloys Potentially Suitable for Use in Engines"

Kiev, Problemy Prochnosti, No 11, Vol 73, pp 73-77

Abstract: An investigation is made of the high-temperature strength of the nickel-based dispersion-hardened alloys VDU-1 and VDU-2, hardened by finely dispersed, uniformly distributed particles of high-melting exides of the ThO2 type in the amount of 2-3% by weight. A study was made of the strength of semifinished products in the form of rods 6-12 mm in diameter and sheets 0.8-1.2 mm in thickness, obtained from powders of the components via shaping, baking, and hot extrusion. Results are presented of an investigation of the short- and long-term strength, the creep, fatigue, and heat resistence of the alloys to establish their suitability for use in gna-turbine engines. An analysis was made of such strength features of these alloys as the nature of the temperaturetime relationship of the strength, the scattering of the heat-resistance indicators, the sensitivity to loading instability, etc. in comparison to the strength properties of series-produced highly heat-resistant alloys. The

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USSR

UDC 669.71:620.172.251.226

KOSAREV, A. I., BICH, E. N., and PARFENOVA, N. V., All-Union Institute of

"Strengthening and Weakening of Aluminum Alloys at 135-150°C Under Load"

Moscow, Metallovedeniye, No 3, 1973, pp 41-45

Abstract: The mechanical properties and structure of intermediate products of 120-1, D16, and VAD23 precipitation-hardening aluminum alloys after soaking at increased temperatures under stress were investigated in this work and the results compared with AK4-1 alloy properties from a previous study. The heat treatments consisted of the following for each alloy: IPO-1, 2.5-mm-thick sheet -- aged at 170°C for 16 hours; D16, 2-mm-thick sheet, naturally aged and aged at 190°C for 8 hours; VAD23, sheet 1.8 mm thick, naturally aged and aged at 160°C for 12 hours; D16, extruded rod 100 mm in diameter, naturally aged and aged at 160°C for eight hours; and VAD23, extruded strip 54 mm thick, aged at 160°C for 12 hours. It was found that strengthening and weakening processes occur in these alloys at 150°, 135°, and lower temperatures under the action of tensile stresses; strengthening is caused by additional precipitation of strengthening phase particles and phase cold working, while weakening results from coalescence of the precipitated particles. With increased temperature and reduced stress the process of coalescence is accelerated in 120-1 and D-16

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KOSAREV, A. I., et al, Metallovedeniye, No 3, 1973, pp 41-45

alloys and promotes the presence of the less thermally stable CuAl₂ phase in intermediate products and a nonuniform, partially recrystallized structure in extruded intermediate products of Dl6 alloy. Extruded intermediate products with a coarse-grain recrystallized structure have a greater tendency toward strengthening. The long-time strength of these intermediate products can be more stable than the long-time strength of intermediate products with a fine-grain, equiaxial structure. In the height direction, these intermediate products are strengthened less and possess a lower long-time strength than judge the tendency of an alloy to strengthening and weakening from long-time of the curves the more intensive is the strengthening. An increase in relative reduction in area during long-time strength tests characterizes intensive table, 3 bibliographic references.

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Acc. Nr: APO038108

Ref. Code: UR 0326

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PRIMARY SOURCE: Fiziologiya Rasteniy, 1970, Vol 17, Nr 1,

PP 83-90

ROLE OF PHYSIOLOGICALLY ACTIVE SUBSTANCES IN DORMANT AND GERMINATING PEACH SEEDS

Kolomiyets, I. A.; Parfenova, T. M.; Teplitskaya, Ye. V.

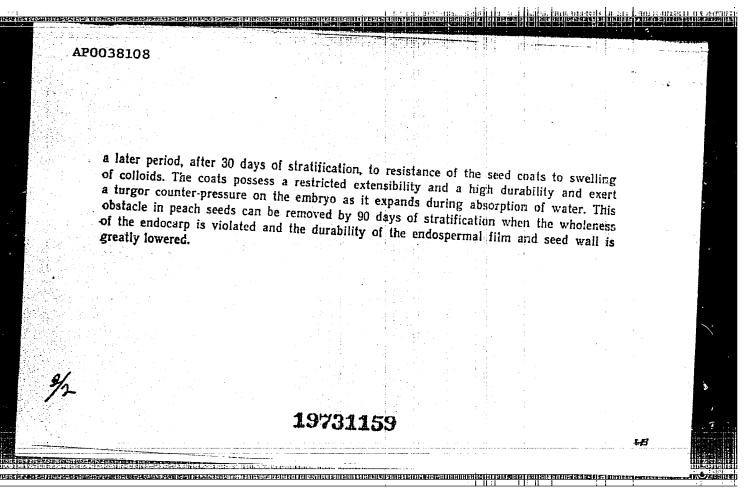
Central Botanical Garden, Ukr. SSR Academy of Sciences, Kiev

The permeability of the coats of peach (Persica vulgaris Mill.) seeds with respect to water and tha auxin and growth inhibitor content in the coats and embryos as depending on the growth conditions were studied. Considerable amounts of growth inhibitors were found in the coats and embryos of peach seeds. In the embryos the inhibitors were inactivated to a great extent as a result of soaking of the seeds. The remaining inhibitors do not hamper growth of isolated embryos but slow down division and growth of cells in the middle of the meristem and in the zones of primary differentiation and elongation of the stem. A result of this is dwarfness of the seedlings. Complete inactivation of growth inhibitors in the embryos can be attained by 30 day cold stratification. Dormancy of the inactive seeds is due to restricted uptake of water in the embryos. This can be ascribed to the presence in the inner coats (in the endospermal film and seed coat) of growth inhibitors blocking the enzyme activity during the initial period and at

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UDC 547.621:661.718.3/.719:542.953

ISAGULYANTS, V. I., PARFENOVA, V. A., and ROCHEVA, G. YA., Moscow Institute of Petrochemical and Gas Industry Imeni Akademika I. M. Gubkin

"Synthesis of 0,0-Di-(alkylphenyl)-N-alkylamidothiophosphates"

Leningrad, Zhurnal Prikladnoy Khimii, Vol 45, No 6, Jan 72, pp 1404-1406

Abstract: A mixture of 9.9 g 0.0-di-(p-tert-butylphenyl)-thiophosphoryl chloride, 1.47 g n-propylamine, and 2 g pyridine in anhydrous benzene was heated to 60° with constant stirring under an atmosphere of nitrogen for 5 hrs. After cooling, pyridine hydrochloride was filtered off and benzene was removed under reduced pressure to yield 0.0-di-(p-tert-butylphenyl)-N-n-propylamidothiophosphate. Analogously the following compounds were obtained: 0.0-di-(p-tert-butylphenyl)-N-n-butyl-, and -n-amylamidothiophosphate and 0.0-di-(octylphenyl)-N-propyl-, -isobutyl-, -n-butyl-, -n-amyl-, and -n-hexylamidothiophosphate.

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Acc. Nr: AP0037843

Ref. Code: UR 0056

PRIMARY SOURCE:

Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1970, Vol 58, Nr 1, pp 76-79

MAGNETIC HYPERFINE INTERACTION FOR Co⁵⁰ IN Pt—Co ALLOYS

Yerzinkyan, A. L.; Parfenova, V. P.

The magnetic fields on Co⁸⁰ nuclei in Pt — Ce alloys are measured by the oriented nuclei technique for Co concentration between 8 and 90 at.%. The field strength on the nucleus is practically independent on the Co concentration. The results are compared with the corresponding data for Pd — Co alloys obtained previously [1, 2]. The experimental results point to a significant difference in the interaction of the Co atom magnetic moment with the conductivity electrons in the two matrices.

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1/2 009 UNCLASSIFIED PROCESSING DATE--090CT70
TITLE--DETERMINATION OF THE MONETHYL ADIPIC ACID CHLORIDE -U-

AUTHUR-1041-SOLUNINA, I.A., PARFENOVA, V.V., DEVYATNIN, V.A., KUZNETSOVA,

COUNTRY OF INFO-USSR

SGURC --- KHIM. FARM ZH. 1970, 4(2), 46-8

DATE PUBLISHED ----- 70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES, CHEMISTRY

TOPIC TAGS—CHEMICAL ANALYSIS, ADIPIC ACID, CARBOXYLIC ACID CHLURIDE,

CONTROL MARKING-NO RESTRICTIONS

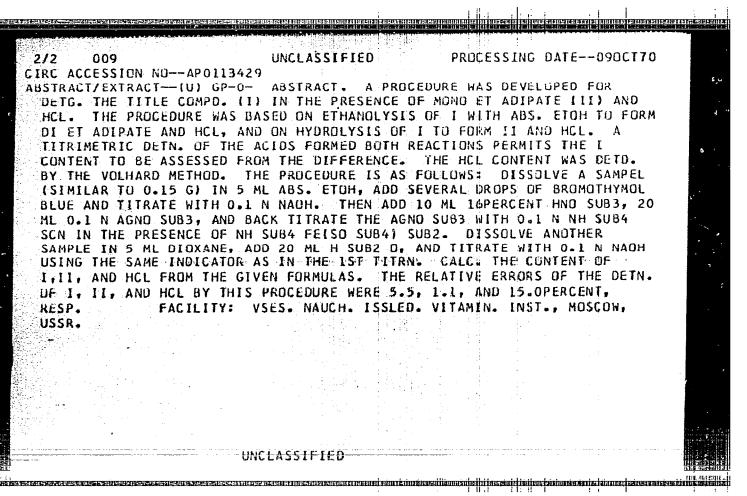
DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—1993/0538

STEP NO--UR/0450/70/004/002/0046/0048

CIRC ACCESSION NO--APO113429

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USSR

PARFENOVA, V. Ye., SYROYEZHIN, I. M.

"Mathematical Economics Analysis of an Organizational Hierarchy"

V sb. Primenenive mat. v ekon. (Use of Mathematics in Economics—collection of works), vyp. 7, Leningrad, Leningrad University, 1972, pp 54-63 (from RZh-Kibernetika, No 6, Jun 72, Abstract No 6V472)

[No abstract]

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icc. Nr.	08180 Abstracting Service:	Ref. Code	6
	M. F.; Myagkov, V. V.; Vladimirov, N. F.; Nikonov, V. F.; Yakovenko, A. F.; Parfen	u. P.; Calkin, urasov, S. A.; ovskii, A. B.;	
	Appl. 02 Dec 1968; From Otkrytiya, Isobret., F. Totatnye Znaki 1970, 47(4), 81. Steel with in properties consisted of: C 0.40-0.45, Si 0.5-0.7 Cr 1.5-1.8, V 0.3-0.5, Mo 0.9-1.2, impurities of P <0.03%, and Fe the remainder.	iproved mech,	
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USSR

UDC: 621.371.332.3.01

BABAYEV, A. B., LOGACHEV, V. P., FEDOROV, V. A., PARFEIT YEV, V. N.

"Experimental Investigation of the Characteristics of Reflection From Uneven Ground Surfaces"

Tr. Mosk. energ. in-ta (Works of the Moscow Power Engineering Institute), 1972, vyp. 110, pp 87-89 (from RZh-Radiotekhnika, No 8, Aug 72, Abstract

Translation: An investigation was made of the power of a signal reflected from a ground surface with forest cover as a function of the angle of irradiation of the surface for various types of forest cover (heavy coniferous forest, deciduous, mixed, and so on), and also of the influence which the moisture content of the reflecting surface and cover has on the power amplitude and degree of depolarization of the reflected signal. The results are presented in juxtaposition with data found for the surface of the sea, ice, and plowed ground without cover. Three illustrations, two tables. N. S.

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- 21 -

USSR

UDC: 621.371.332.3

BABAYEV, A. B., LOGACHEV, V. P., PARFENT'YEV, V. N., FEDOROV, V. A., SHELO-MANOVA, G. P.

"Some Problems of Reflection of a Frequency-Modulated Signal From Forest Cover"

Tr. Mosk. energ. in-ta (Works of the Moscow Power Engineering Institute), 1972, vyp. 110, pp 84-86 (from RZh-Radiotekhnika, No 8, Aug 72, Abstract No 8657)

Translation: Using an experimental model of a radio altimeter with frequency modulation (waveband of 7 cm, deviation of 100 MHz, width of the polar diagram at half power in both planes 25-30°), the authors studied the errors in measurement of flight altitude over a forested surface. The experiments were done over hills of various heights with different types of trees. A singularity was found in the signal reflected from the forest — beats with two maxima showed up in the signal spectrum. The error in altitude measurement depending on the density and height of forest cover is determined. Three illustrations. N. S.

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USSR

UDC 536,243

PCHELKIN, I.M., KALAKUTSKAYA, N.A. and PAKFENT'YEVA, I.F.

"Effect of Length and Geometry of Laval Nozzle on Expansion of Water-Air Mixture"

Moscow, Teplo-Massopernos v. Odno-i Dvukhfaznykh Sredakh, 1971, pp. 38-51

Abstract: An experimental investigation was conducted of the flow of water-air mixture through a convergent-divergent Laval nozzle.

Four nozzles of different lengths were tested. All nozzles had approximately the same throat and exit diameters.

The jet reaction of the nozzle and the mass flow were measured. Since the jet reaction is equal to the product of the mass flow by the mean velocity, the latter could be calculated. Fig. 1 shows the mean velocity versus dryness for several values of the inlet pressure.

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PCHELKIN, I. M., et al., Teplo-Massopernos v Odno-i Dvukhfaznykh Sredakh, 1971, pp 38-51

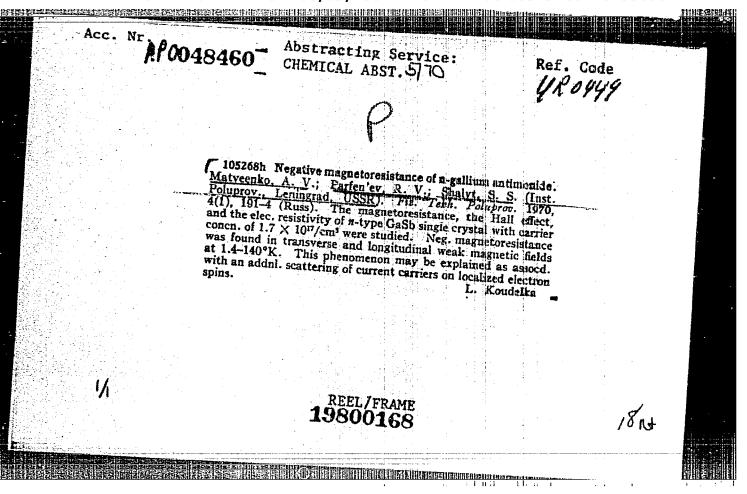
The ratio of the gas velocity to the water velocity was calculated from known mass flows and specific weights of the two phases, it is shown on fig. 2.

The efficiency of the nozzle is defined as the ratio of the sum of kinetic energies of the two phases to the sum of their potential energy drops. The efficiencies of the shortest and longest nozzles versus inlet pressure for several values of dryness are shown on fig. 5.

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USSR

UDC: 621.791.019

MAKARA, A. M., GORDONNYY, V. G., DIBETS, A. T. SARZHEVSKIY, V. A. PARFESSA, G. I., Institute of Electric Welding imeni Ye. O. Paton

"Remelting of High-Strength Steels as a Means of Increasing the Resistance to the Formation of Cold Cracks During Welding"

Kiev, Avtomaticheskaya Svarka, No 8, Aug 73, pp 1-5.

Abstract: One method of improving the properties of high strength structural steels is refining of the initial metal, i.e., decreasing the content of harmful impurities, gasses, nonmetallic inclusions, and improvement of the initial structure of the metal. The use of electric-slag and cathode-ray remelting can significantly improve the ductility and toughness of the nitrogen, hydrogen and nonmetallic inclusions. Following refining remelting, the resistance to the formation of cold cracks near a welded seam in type 35Kh2N2M and 42Kh2GSNM steels is increased by 50-60%.

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UDC 621.791.754'264

UL'YANOV, V. I., Engineer, PARFESSA, G. I., Candidate of Technical Sciences, VYSOTSKIY, G. A., Engineer, Institute of Electric Welding imeni Ye. O. Paton, Academy of Sciences Ukrainian SSR, and SUDAVTSOVA, V. S., Engineer, Kiev State University imeni T.

"Influence of Titanium on the Technological Properties of Type

Kiev, Avtomaticheskaya Svarka, No 6 (243), Jun 73, pp 59-62

Abstract: The authors studied the influence of titanium on the technological properties of type Sv-08G2S wire during welding in carbon dioxide. They showed that doping 0.3-0.4 percent Ti permits reducing the sputtering during CO2 welding and improving the mechanical properties of the seam metal. They suggest studying additional measures to increase the resistance of the seam metal to crystallization cracks. The article contains 2 tables, 4 figures, and 7 bibliographic references.

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UDC 621.791.053.002.637:546.226

PODGAYETSKIY, V. V., Doctor of Technical Sciences, PARFESSA, G. I., Engineer, and LEYHACHUK, YE. I., Candidate of Technical Sciences

The Shape of Sulfide Inclusions in Welds

ningation and a more than the second of the

Moscow, Swarochnoye Proizvodstvo, No 12, Dec 70, pp 14-15

Abstract: The article describes results of a study of sulfide inclusions in welds of varying composition. Welds on carbon and low-carbon steel display all three types of sulfide inclusions usually encountered in cast steel, viz. globular and round oxysulfide and sulfide inclusions, sulfide films and chains of small sulfide inclusions, and complex sulfur-containing inclusions of irregular shape. The shape and composition of the sulfide inclusions forming in the welds depend on the conditions for their elimination. The authors studied the effect of different titanium and vanadium contents on the shape of welds welded on low-carbon rimming steel St. 3 under a silicon-free manganese-free flux (AN-30 or AN-70). A metallographic study showed that

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PODGAYETSKIY, v. v., et al., Svarochnoye Proizvodstvo, No 12, Dec 70, pp 14-15

the introduction of small amounts of titanium changes the shape and composition of the sulfide inclusions. There is a significant increase in the quantity of complex sulfide films and chains situated along the primary crystallite boundaries and a decrease in the number of oxysulfide inclusions. A further increase in the titanium concentration results in the appearance of complex nonmetallic inclusions containing titanium carbides and sulfides, as well as a decrease in the number of film-like sulfide inclusions. With titanium concentrations of 0.5-2.0 percent practically the entire sulfur enters into the complex nonmetallic inclusions, and the films and chains of sulfides completely dis-The introduction of vanadium changes the shape and composition of the globular oxysulfide inclusions. In welds without vanadium these inclusions consist mainly of ferromanganese oxides and silicates. With the introduction of vanadium the oxysulfide inclusions consist mainly of vanadium oxides and ferromanganese sulfides, with some sulfide films and chains. In

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PODGAYETSKIY, V. V., et al., Svarochnoye Proizvodstvo, No 12, Dec 70, pp 14-15

welds with a higher carbon content (up to 0.3 percent), vanadium carbide inclusions form, which serve as elimination centers for the sulfides. This reduces the number of film and chain sulfide inclusions. With a vanadium content of about 4-8 percent practically the entire sulfur is in the form of irregularly shaped vanadium carbosulfide particles.

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UDC 535:37:548.736

I. A. PARFIANOVICH and P. N. YAROVOY (Irkutsk State University)

"Nature of the Inertia of Photostimulated Luminescence of the Crystal Phosphor NaCl-Ni"

Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya (News of the Academy of Sciences USSR, Physics Series), Vol. 35, No 7, 1971, pp 1316-1319

Abstract: Light absorption and emission in NaCl-Ni are due to centers formed by monovalent Ni⁺. Samples grown from NaCl-NiCl₂ contain only bivalent Ni⁺⁺ ions. Ionizing radiation transforms these ions into monovalent ions and also forms F-centers in the crystal. The after-glow following a 10 microsec exposure decays exponentially. The light emission is practically independent of temperature in the 90 to 400°K range.

Experiments indicate that the inertia of photostimulated luminescence is due to electrons remaining on the excited level of the luminescence centers: i.e., the Ni⁺ ions that replace the cations in the lattice. The participation of electron traps is investigated with the aid of thermoluminscence curves. The peaks of the curves indicate that in addition to the F-centers there are at least four systems of small electron capture levels. Impurity ions are the principal electron capture centers in the kinetics of afterglow. Special 1/2

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I. A PARFIANOVICH and P. N. YAROVOY, <u>Izvestiya Akademii Nauk SSSR</u>, <u>Seriya</u> <u>Fizicheskaya</u>, Vol 35, No 7, 1971, pp <u>1316-1319</u>

experiments were made to study the possible storage of light when a phosphor sample is excited in the activator absorption band. Delocalization of the excited state is observed, but no photoconductivity or internal excitation of the centers.

It is concluded that recombination luminescence is due to the capture of electrons by Ni⁺⁺ ions, whereby the electrons reach the excitation level of the Ni⁺ center. Preliminary results are sketched for experiments in which the phosphor was exposed to ruby laser pulses. Storage of light is observed on the free electron capture levels. Results compare with those obtained by X-ray radiation.

Orig. art. has 2 figures and 9 references.

2/2

USSR

PARGAMANIK, L. E.

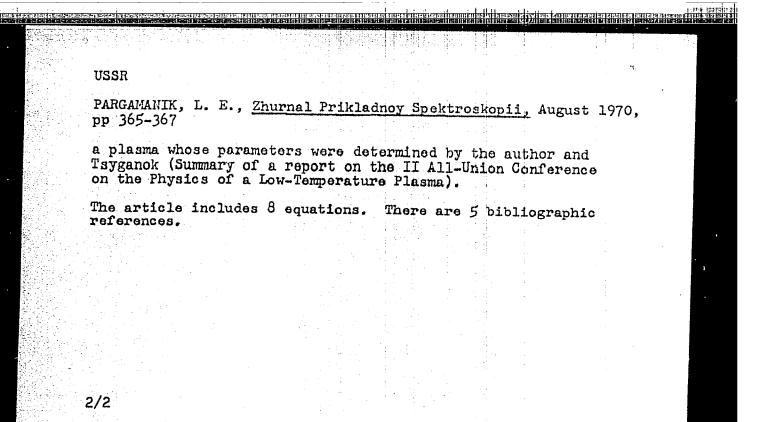
"A Theory for the Spectrum of the Electromagnetic Radiation of a Macroscopic System"

Minsk, Zhurnal Prikladnoy Spektroskopii, August 1970, pp 365-367

Abstract: The basic concepts and results of a quantumstatistical theory for the form of spectral lines emitted by atoms in a medium are presented. The radiating atoms and excited particles are considered as parts of a single macroscopic system. The Hamiltonian of the interaction in such a system with an electromagnetic field is expressed by the correlation density of the current of a radiating atom.

The dependence of the intensity of the spontaneous radiation of the macroscopic system on the frequency is studied. The intensity is expressed by the transition current of an atom and its Green function. The results obtained by Yakimets (ZhETF, 51, 1469, 1966) are given in a dipole approximation. Curves for the lines of Greim, Kolb, and Shen (phys. Rev., 116, 4, 1959) are obtained by means of the Green function for a hydrogen atom in 1/2

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USSR

PARIBOK, V. P., Professor, (Editor) (Deceased)

Postradiatsionnaya Reparatsiya (Postradiation Repair)

Moscow, "Atomizdat," 1970, 336 pp

Translation: The Scientific Council on the Complex Problem of Radiobiology, USSR Academy of Sciences, is publishing the series Sovremennyye Problemy Radiobiologii (Modern Problems of Radiobiology). In our day of extremely rapid development of the atomic industry and the peaceful use of atomic energy, and of rapid penetration of man into space, questions of radiobiology are attracting increasing attention. Radiobiology is a young science. It studies the effect of radiation from large quantities of energy on living organisms, their populations, and the biosphere as a whole.

Modern radiobiology sets as its task understanding, on the molecular, cellular, and organism levels, the essence of the changes taking place under the influence of radiation, for the purpose of making practical use of ionizing radiation in medicine, agriculture, and biological industries, and in order to develop new methods of protection and restoration for radiation damage. In the volumes planned for publication, contemporary problems in molecular radiobiology, radioecology, radiation genetics, radiobiology of microorganisms, higher

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PARIBOK, V. P., "Atomizdat," 1970, 336 pp

animals, and plants, as well as other areas of this growing science, will be discussed.

The volumes are coming out under the editorship and with the participation of scientific specialists working in the field of radiobiology. The chief editor of the series is Corresponding Member of the USSR Academy of Sciences, A. M. Kuzin. The publication is intended for a broad circle of specialists working in various divisions of theoretical radiobiology, and dealing with questions of the practical utilization of high energy radiation in medicine, agriculture, and the biological industry. The works will be of interest to teachers and students of advanced courses in departments of biology and medicine, and to everyone who is interested in modern problems of natural science.

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UDC 612.014.481

PARIBOK, V. P., and KRUPNOVA, F. G., Laboratory of Radiation Cytology, Institute of Cytology, Academy of Sciences USSR, Leningrad)

"The Effect of Fractional X-ray Irradiation of the Meristematic Cells"

Leningrad, Tsitologia, Vol 12, No 4, 1970, pp 525-533

Abstract: In order to study the effect of repeated irradiation on the meristematic cells of the bean, Vicia faba, hundreds of sprouts were prepared. A group of sprouts was studied for the meristematic chromosomal formations. The others were irradiated with 400 r and kept moist between blotters. Ninety minutes later, groups of sprouts were again irradiated with various doses and subjected to comparative studies.

The results show that the population of meristematic cells irradiated for the second time contains fewer damaged chromosomes than a similarly treated group without prior irradiation. It was observed that the first dose of irradiation damaged many chromosomes, but at the same time provoked cyclic alterations in the sensitivity of chromosomes to secondary irradiation. The meristematic chromosomes developed a prophylactic immunological reaction against the injurious agent (radiation).

Radiobiology

USSR

UDC 547.963.3:591.044.82

PARIBOK, V. P., (Deceased), and SEMENOVA, Ye. G., Laboratory of Radiation Cytology, Institute of Cytology, Academy of Sciences USSR, Leningrad

"Unscheduled DNA Synthesis and Repair of HeLa Zh-63 Cells Sublethally Damaged by Irradiation"

Leningrad, Tsitologiya, Vol 12, No 11, Nov 70, pp 1,423-1,432

Abstract: It was determined that the dose-survival rate curve of HeLa Zh-63 cells exposed to ultraviolet light (2,537 Å) is exponential and that there is no fractionation effect. Ultraviolet irradiation stimulates the "unscheduled" synthesis of DNA in all cells not in the S-phase. The dose-survival rate curve of X-ray-irradiated HeLa Zh-63 cells synchronized in the G1-phase is S-shaped, and there is a fractionation effect, i.e., the sublethally damaged cells are repaired. In this stage, the unscheduled synthesis of DNA after X-ray irradiation cannot be detected by autoradiography. These findings suggest that sublethally injured HeLa cells can be repaired without the presence of unscheduled DNA synthesis detectable by autoradiography. Unscheduled DNA synthesis induced by ultraviolet light in HeLa Zh-63 cells is highly radioresistant. It is not inhibited by even 100 rads of X-ray irradiation.

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UDC: 537.533

ARIFOV, U. A., MUKHAMADIYEV, E. S., PARILIS, E. S., and PASYUK, A. S., Joint Institute of Nuclear Research, Dubna

"Identification of Multicharge Ions from the Electron Emissions They Cause"

Leningrad, Zhurnal Tekhnicheskoy Fiziki, No 2, 1973, pp 375-379

Abstract: In the analysis of an ion beam with a mass analyzer the ions are divided in accordance with their mass/charge ratios. In such a beam, however, there are ion pairs of the same or similar ratio, thus giving rise to the problem of quantitatively identifying the ions making up these pairs. In an earlier paper one of the authors named above (Parilis, E. S., Reprint of the OIYaI, R7-335, Dubna, 1967) proposed a method for identifying such multicharge ions from the potential electron emission from metals they produce. The function of the present article is to explain briefly the mechanism of the electron emission and the theory behind the identification method and to give the method and results of experimental research conducted by the IYaR OIYaI (Nuclear Reactions Laboratory of the Joint Institute of Nuclear Research) in Dubna.

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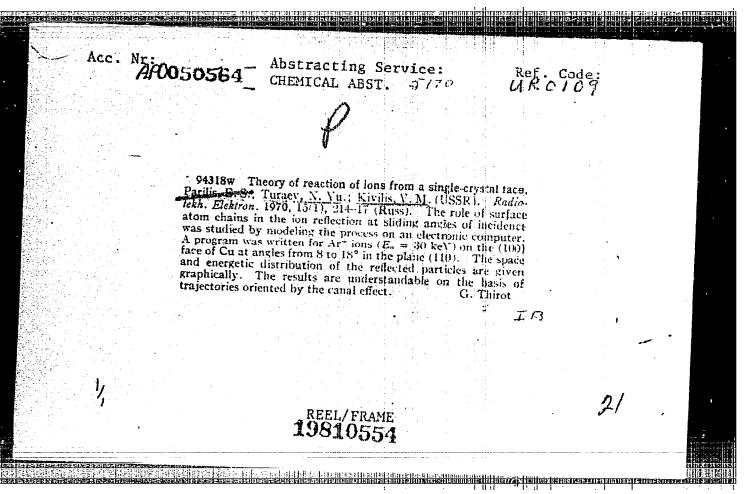
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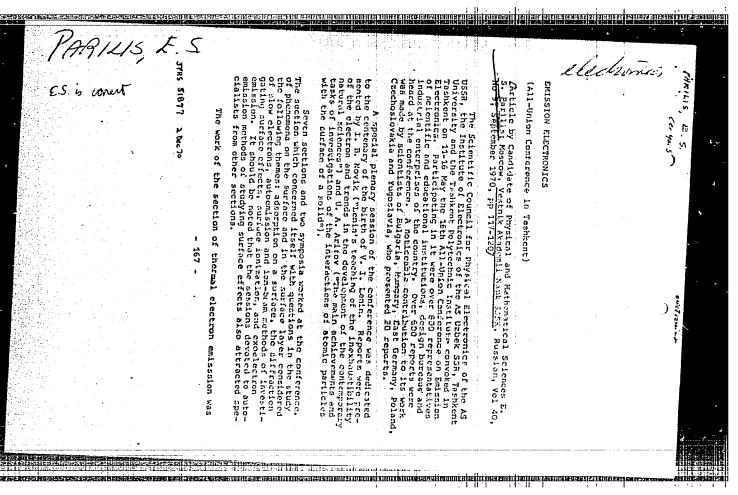
ARIFOV, U. A., et al, Zhurnal Tekhnicheskoy Fiziki, No 2, 1973, pp 375-379

A diagram of the experimental equipment and curves for its results are presented. The authors express their gratitude to Academician G. N. Flerov and Ye. D. Vorob'yev for their support and to Yu. P. Tret'yakov and R. I. Ivannikov for their assistance.

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USSR

PARIN, V.

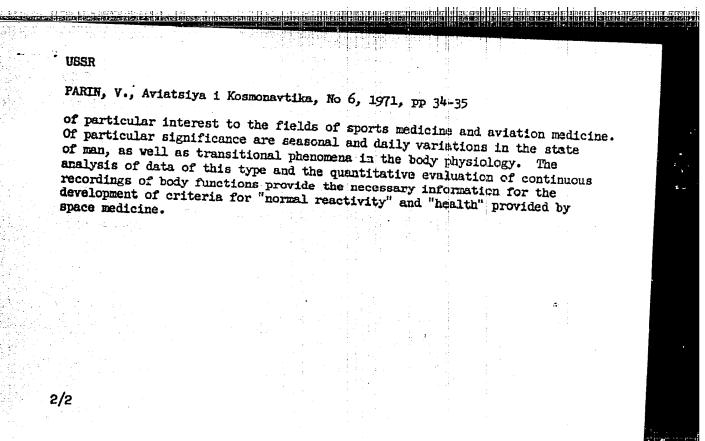
"Space and Earth Medicine"

Moscow, Aviatsiya i Kosmonavtika, No 6, 1971, pp 34-35

Abstract: Maintaining man in top condition is one of the important objectives of space medicine and requires many preflight prophylactic masures. Space medicine is devoted to obtaining information on the most intimate processes taking place in the body and it attempts to correlate this information to perfect the direction and control of body functions. This is of importance also for the field of clinical physiology. New methods of medical research have been developed for space medicine. Among them is seismmeardiography, a method of studying the contracting function of the heart. This method is used on Soviet spacecraft as well as in hospitals. In this way the achievement of space physiology has been incorporated in the cardiologic clinic. Valuable diagnostic criteria derived by space medicine are used in the operative control of patients and give rise to the development of new devices in medicine. Paradoxically, in earth medicine, the healthy body has been studied less than the sick one. The reverse is true in space medicine, and this also accounts for the great value of space medicine for terrestrial medicine. This area is

- 27 -

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1/2 030 UNCLASSIFIED PROCESSING DATE-300CT70 FTITLE-PSYCHOLOGICAL AND PHYSIOLOGICAL REACTIONS OF MAN IN SPACE -U-

AUTHOR-(03)-PARIN, F., CHASEN, I., KOSHOLINSKIY, F.

COUNTRY OF INFO--USSR

SOURCE--VDI-Z, VOL 112, NO. 6, 1970, P. 359, 360

DATE PUBLISHED 70

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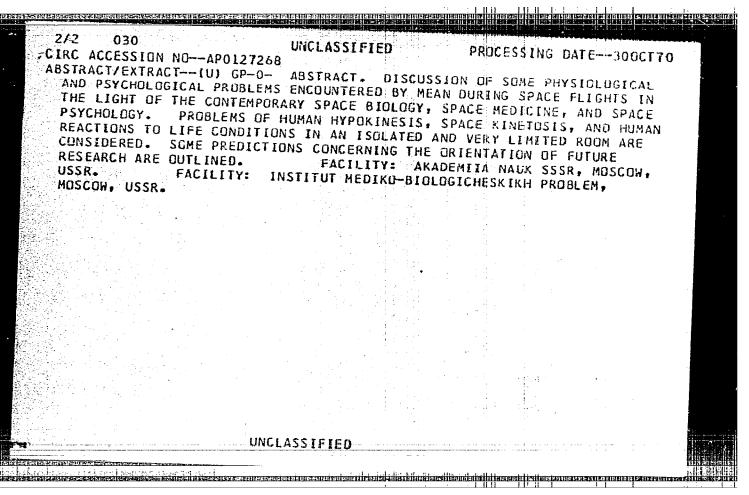
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AUTHOR-103)-PARIN. V., PETROV. B., YELISEYEV, A.

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DATE PUBLISHED--03JUL70

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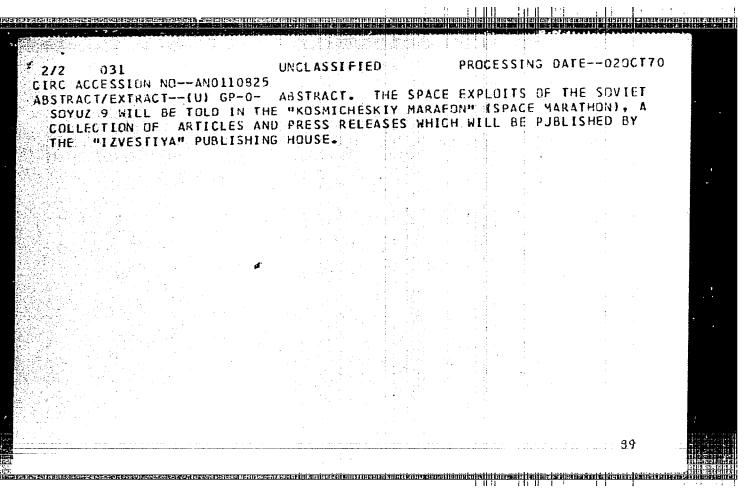
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AUTHUR--PARIN, V.

COUNTRY OF INFO--USSR

SCURCE--PRAVDA, JUNE 19, 1970, P 3, COLS 1-5

DATE PUBLISHED--19JUN70

SUBJECT AREAS--ASTRONOMY, ASTROPHYSICS, SPACE TECHNOLOGY, BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS -- SPACE MEDICINE, SPACE BIOLOGY, SOLAR FLARE, INTERPLANETARY

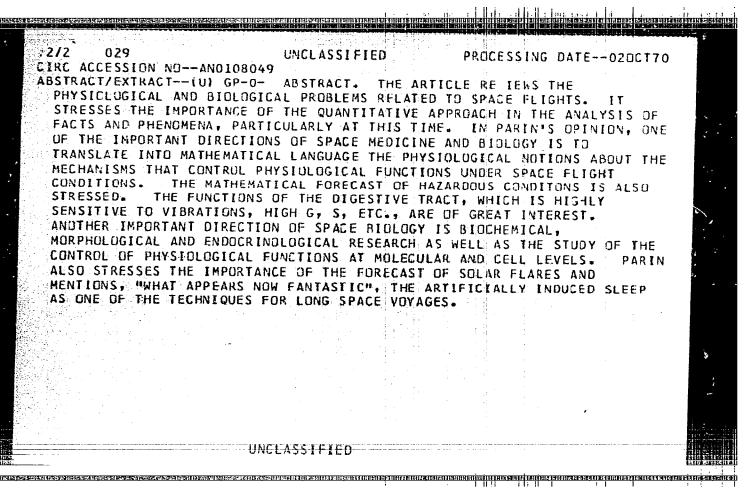
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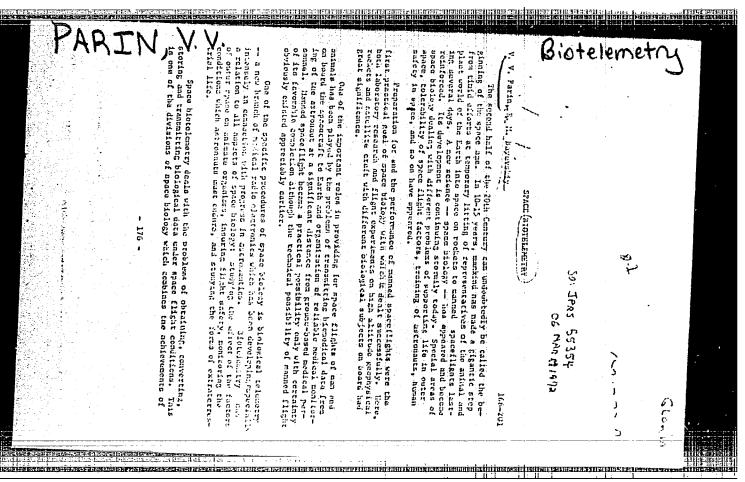
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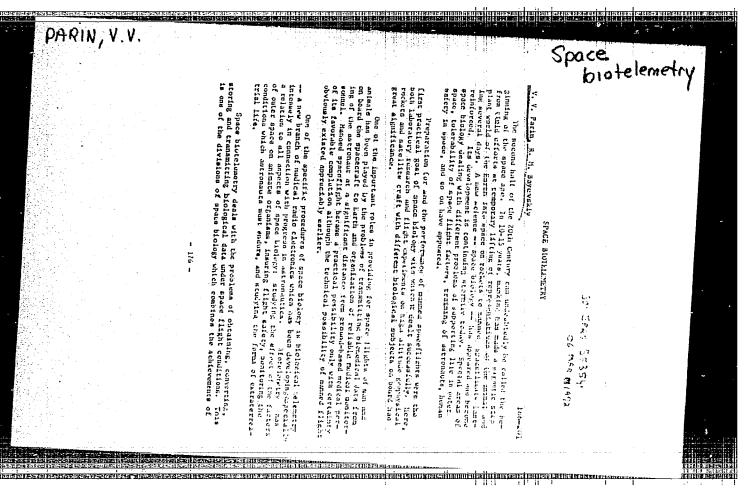
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USSR

UDC 615.21+612.178

PARIN, V. V., Academician (Deceased), FEDOROV, B. M., GRANDRERG, I. I., BATULIN, Yu. M., and PODREZOVA, N. A., Institute of Medical-Biological Problems, Moscow

"Myorelaxation of Animals by the Injection of 3,5-Dimethyl-4-bromopyrazole and the Effect of Extracardial Nerve Stimulation Under These Conditions"

Moscow, Doklady Akademii Nauk SSSR, Vol 200, No 5, 1971, pp 1,252-1,253

Abstract: Intraperitoneal administration of 3,5-dimethyl-4-bromopyrazole in a dose of 200-400 mg/kg to rabbits or in a dose of 300-500 mg/kg to dogs produced a state of profound myorelaxation, from which the animals recovered within a time that increased with increasing doses of the drug. A dose of 450-500 mg/kg and > 500 mg/kg was lethal for rabbits and dogs, respectively. Study of the effects of direct stimulation of the vagus or of sympathetic nerves effecting adrenergic innervation of the heart, which was carried out in experiments on dogs to which 350-500 mg/kg of the drug had been injected, showed that the state of myorelaxation did not affect the action produced by direct stimulation of the extracardial nerves.

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Ref. Code: 71R 9012

AUTHOR--

PARIN, V. V., ACADEMICIAN

TITLE--

PROGRESS OF SPACE PHYSIOLOGY

NEWSPAPER -- SOVETSKAYA ROSSIYA, JUNE 4, 1970, P 1, COLS 4-8

ABSTRACT-- IN PARIN.S OPINION, THE IMPLEMENTATION OF THE BIO-LOGICAL RESEARCH PROGRAM, CARRIED OUT BY HIGH-ALTITUDE GEOPHYSICAL ROCKETS, AN ARTIFICIAL SATELLITE OF THE EARTH, AND SPACE SHIPS-SATELLITES /*KKS-2* AND *KKS-5*/, WAS A MILESTONE THAT MARKED THE TRANSFORMATION OF SPACE BIOLOGY AND MEDICINE INTO INDEPENDENT DISCIPLINES.

SOVIET RESEARCHERS HAVE DISCOVERED THAT CHANGES IN THE REACTIVITY OF HUMAN ORGANISM CAUSED BY ACCELERATION ARE CLOSELY RELATED TO STRUCTURAL AND METABOLIC DISTURBANCES IN SOME TISSUES, ORGANS, AND SYSTEMS, DESPITE GENERALLY SATISFACTORY CONDITIONS OF THE ORGANISM, LATENT FUNCTIONAL AND ORGANIC ABNORMALITIES MAY BE PRESENT.

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PARINA O. V., PATRIKEYEV, V. V., and LYSENKO, S. V., Institute of Microbiology, Academy of Sciences USSR, Moscow

"Survival and Physiological Activity of Some Yeast Strains Studied After a Prolonged Storage in Silica Gel"

Moscow, Mikrobiologiya, Vol 41, No 1, Jan/Feb 72, pp 164-167

Abstract: Yeast cultures of Candida guilliermondii, C. tropicalis, and C. lypolitica were used in the study. The 24-hour cultures of yeast were mixed with silica gel or with silica gel containing one of the following compounds: 10 milligrams/liter of FeSO₄.7 H₂O or NnSO₄.7 H₂O, or 6 milligrams/liter of ZnSO₄.7 H₂O, CoCl₂.6 H₂O, NH₄NO₃, or (NH₄)2MOO₄. The mixtures were dried and stored in sealed ampules for 1, 6 or 12 months at room temperature. The yeast MnSO₄ gave the best survival and retained best their capability to oxidize carbohydrates even after one year of storage, which indicated that their oxidizing function was preserved.

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UDG: 621.376:530.145.6

POKROVSKIY, Yu. A., BAKALOV, V. I., PARINSKIY, A., Ya., and MILITEYEVA, G. V.

"Resonance Angular Devices in the Optical Range"

V sb. Vopr. radiotekhniki (Electronic Engineering Problems-collection of works) Tula, Tula Polytechnical Institute, 1970, pp 45-53 (from RZh-Radiotekhnika, No. 3. March 71, Abstract No. 3D376)

Translation: This paper demonstrates the possibility of using resonance angular devices as broad-band light modulators, transverse oscillation selectors in open resonators, and Q modulators for lasers. Their superiority over similar devices of the non-resonance type is noted. Resume

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UDC: 621.372.852.1

BAKALOV, V. I., PARINSKIY, A. Ya., and MRAVTSOV, N. L.

"Investigating a Resonance Angle Filter in the Optical and UHF Ranges"

V sb. Voor. radiotekhniki (Radio Engineering Problems-collection of works) Tula, Tula Polytechnical Institute, 1970, pp. 28-44 (from RZh-Radiotekhnika, No. 3, March 71, Abstract No. 33155)

Translation: Results are given of a theoretical and experimental investigation of an angular selective system of the single-layer resonance angle filter. The spectral (angular and frequency) characteristics of the interference system and the local and integral transmission characteristics with rectangular and sinusoidal spaced pulses at the input are obtained.

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UDC 621.372.061

POKROVSKIY, YU. A., PARINSKIY, A. YA.

"Spatial Transient Processes in Resonance Laminated Systems"

Vopr. radiotekhniki -- Vsh(Problems of Radio Engineering -- collection of works), Tula, Tula Polytechnical Institute, 1970, pp 7-28 (from RZh-Radiotekhnika, No 4, Apr 71, Abstract No 4A125)

Translation: The theory of opposed and two-dimensional spatial and transient processes in resonance laminated systems is discussed, and the characteristics of a two-resonator complete internal reflection filter are calculated.

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